

We claim:

1. A method for accurately conveying wireless connection availability through a tower in a defined area comprising the steps of:
  - determining the maximum capacity of the tower;
  - 5 establishing a threshold capacity of the tower;
  - monitoring the calling activity through the tower; and
  - broadcasting a connection availability message to wireless devices in the area of the tower.
- 10 2. The method as described in claim 1 further comprising before said broadcasting step, the step of detecting when the calling activity has exceeded the established threshold capacity for that tower.
3. The method as described in claim 1 wherein said monitoring step further  
15 comprises maintaining a constant and accurate count of the number of wireless devices that are connected through the tower.
4. The method as described in claim 3 further comprising after said broadcasting  
20 step, the steps of receiving and displaying the broadcasted message at a wireless device in the area of the tower.
5. The method as described in claim 4 wherein the display of the broadcasted  
25 message is a period event on the wireless device that corresponds to content of the calling availability through that tower.
6. The method as described in claim 3 wherein said threshold establishing step  
further comprises establishing multiple threshold levels.
7. The method as described in claim 6 further comprising before said broadcasting  
30 step, the step of detecting when the calling activity has exceeded an established threshold capacity level for that tower.

8. The method as described in claim 7 further comprising the step of determining the closest threshold level that has been exceeded by the calling activity.

9. The method as described in claim 8 wherein said broadcasting step further  
5 comprises broadcasting a calling activity message to wireless device in the area of the tower, the message corresponding to the exceeded threshold level.

10. A system and system for accurately conveying wireless connection availability comprising:

10 a telephone tower for use in connecting wireless devices;

a software routine within the telephone tower, said software routine capable of maintaining a count of the number of devices that are connected through the tower, detecting when the number of devices connected via the tower exceed a predetermined threshold level and broadcasting a message to wireless devices in the area related to the  
15 connection capability through that tower;

a wireless device for use in communicating via the telephone control tower; and

software within the wireless device for receiving and displaying connection availability via the tower.

20 11. A computer program product in a computer readable medium for accurately conveying wireless connection availability through a tower in a defined area comprising:

instructions for determining the maximum capacity of the tower;

instructions for establishing a threshold capacity of the tower;

instructions for monitoring the calling activity through the tower; and

25 instructions for broadcasting a connection availability message to wireless devices in the area of the tower.

12. The computer program product as described in claim 11 further comprising before said broadcasting instructions, instructions for detecting when the calling activity has  
30 exceeded the established threshold capacity for that tower.

13. The computer program product as described in claim 11 wherein said monitoring instructions further comprise instructions for maintaining a constant and accurate count of the number of wireless devices that are connected through the tower.

5 14. The computer program product as described in claim 13 further comprising after said broadcasting instructions, instructions for receiving and displaying the broadcasted message at a wireless device in the area of the tower.

10 15. The computer program product as described in claim 13 wherein said threshold establishing instructions further comprise instructions for establishing multiple threshold levels.

15 16. The computer program product as described in claim 15 further comprising before said broadcasting instructions, instructions for detecting when the calling activity has exceeded an established threshold capacity level for that tower.

20 17. The computer program product as described in claim 16 further comprising instructions for determining the closest threshold level that has been exceeded by the calling activity.

25 18. The computer program product as described in claim 17 wherein said broadcasting instructions further comprise instructions for broadcasting a calling activity message to wireless device in the area of the tower, the message corresponding to the exceeded threshold level.